- e) decelerating the flying object under the restraint of the fixture(s); and
- f) removing the flying object from the fixture(s).

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- 232. An apparatus for capturing a flying object, comprising:
- a) one or more linear or curvilinear fixture(s) suspended across the flight path of the object in a generally vertical orientation, or otherwise in an orientation which includes a component normal to the flight path;
 - b) means for suspending the fixture(s); and
- c) means attached to the flying object for intercepting the sliding of the fixture(s) along a wing or spanwise lifting surface of the flying object.
- 233. The apparatus of claim 232, wherein the linear or curvilinear fixture is a cable.
- 234. The apparatus of claim 232, wherein the means for suspending the fixture(s) is selected from the group consisting of a kite, a balloon, a kite/balloon hybrid, an aircraft, a mast, and a crane.
- 235. The apparatus of claim 232, wherein the means for intercepting the sliding of the fixture(s) comprises at least one hook on a wing or spanwise surface of the flying object.
- 236. The apparatus of claim 232, wherein each hook includes a cleat or latch such that after the fixture is intercepted by the hook, stiding of the fixture through the hook is substantially arrested.
- 237. The apparatus of claim 232, wherein the motion of the flying object during deceleration is accommodated by compliance of the fixture(s).
 - 238. A method for capturing a flying object, comprising the steps of:

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- a) suspending one or more linear or curvilinear fixture(s) across the flight path of the object in a generally vertical orientation, or otherwise in an orientation which includes a component normal to the flight path, such that the suspension of the fixture(s) is kept clear of said flight path by a distance greater than the height or width of said flying object;
 - b) guiding the object to strike one or more of the fixture(s);
- c) intercepting the fixture(s) by one or more hooks attached to a wing or spanwise lifting surface of the flying object;
 - d) decelerating the flying object under the restraint of the fixture(s); and
 - e) removing the flying object from the fixture(s).
 - 239. An apparatus for capturing a flying object, comprising:
- a) means for suspending one or more linear or curvilinear fixture(s) across the flight path of the object in a generally vertical orientation, or otherwise in an orientation which includes a component normal to the flight path, such that the suspension of the fixture(s) is kept clear of said flight path by a distance greater than the height or width of said flying object;
 - b) means for suspending the fixture(s); and
- c) means attached to a wing or spanwise lifting surface of the flying object for intercepting the fixture(s).
- 240. The apparatus of claim 239, wherein the linear or curvilinear fixture is a cable.

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- 241. The apparatus of claim 239, wherein the means for suspending the fixture(s) is selected from the group consisting of a kite, a balloon, a kite/balloon hybrid, an aircraft, a mast, and a crane.
- 242. The apparatus of claim 239, wherein the means for intercepting the fixture(s) comprises at least one hook on a wing or spanwise surface of the flying object.
- 243. The apparatus of claim 239, wherein each hook includes a cleat or latch such that after the fixture is intercepted by the hook, sliding of the fixture through the hook is substantially arrested.
- 244. The apparatus of claim 239, wherein the motion of the flying object during deceleration is accommodated by compliance of the fixture(s).
- 245. The method of claim 238 with the additional step between steps d) and e) of quickly taking out the slack in the fixture.
- 246. The method of claim 245 in which the slack in the fixture is taken out by a device that pulls on the fixture .
- 247. The apparatus of claim 239 additionally including a device to rapidly take out the slack in the fixture after engagement of said aircraft to said fixture.
- 248. The apparatus of claim 247 where said device is located further down the flight path of said flying object than the suspension point of said fixture.
- 249. The method of claim 238 in which the loads from decelerating the flying object are reduced by a mechanism for increasing the displacement of the fixture.
- 250. The apparatus of claim 239 additionally including one or more stops or local enlargements of the fixture to assist in preventing said aircraft from sliding down said fixture.

